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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
PERINO

Serial No. 09/629,862

Filed: August 1, 2000

For: *Apparatus and Method for Operating a
Master-Slave System with a Clock
Signal and a Separate Phase Signal*

Attorney Docket No. 9797-057-999

Date: September 22, 2000

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TRANSMITTAL OF POWER OF ATTORNEY

Assistant Commissioner for Patents
Washington D.C. 20231

Sir:

Enclosed herewith is a Power of Attorney by Assignee and Exclusion of Inventors
Under 37 C.F.R. §3.71. Applicant's attorney requests the Power of Attorney be accepted. A
copy of the assignment of assignor's interest is attached.

The Commissioner is authorized to charge any fees associated with this
communication to our deposit account number 16-1150 (order no. 9797-057-999). A copy of
this sheet is enclosed for such purpose.

Respectfully submitted,

PENNIE & EDMONDS LLP

By: _____

William S. Galliani
Registration No. 33,885

3300 Hillview Avenue
Palo Alto, CA 94304
(650) 493-4935



POWER OF ATTORNEY BY ASSIGNEE

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To the Assistant Commissioner for Patents:

Technology Center 2600

The undersigned assignee of the entire interest in application for letters patent entitled: *Apparatus and Method for Operating a Master-Slave System with a Clock Signal and a Separate Phase Signal*, which may be identified as U.S. Patent Application No. 09/629,862, filed August 1, 2000, and having the named inventor:

DONALD V. PERINO

hereby appoints the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith; said appointment to be to the exclusion of the inventors and their attorneys in accordance with the provisions of 37 C.F.R. 1.32: S. Leslie Misrock (Reg. No. 18872), Harry C. Jones, III (Reg. No. 20280), Berj A. Terzian (Reg. No. 20060), David Weild, III (Reg. No. 21094), Jonathan A. Marshall (Reg. No. 24614), Barry D. Rein (Reg. No. 22411), Stanton T. Lawrence, III (Reg. No. 25736), Charles E. McKenney (Reg. No. 22795), Philip T. Shannon (Reg. No. 24278), Francis E. Morris (Reg. No. 24615), Charles E. Miller (Reg. No. 24576), Gidon D. Stern (Reg. No. 27469), John J. Lauter, Jr. (Reg. No. 27814), Brian M. Poissant (Reg. No. 28462), Brian D. Coggio (Reg. No. 27624), Rory J. Radding (Reg. No. 28749), Stephen J. Harbulak (Reg. No. 29166), Donald J. Goodell (Reg. No. 19766), James N. Palik (Reg. No. 25510), Thomas E. Friebe (Reg. No. 29258), Laura A. Coruzzi (Reg. No. 30742), Jennifer Gordon (Reg. No. 30753), Allan A. Fanucci (Reg. No. 30256), Geraldine F. Baldwin (Reg. No. 31232), Victor N. Balancia (Reg. No. 31231), Samuel B. Abrams (Reg. No. 30605), Steven I. Wallach (Reg. No. 35402), Marcia H. Sundeen (Reg. No. 30893), Paul J. Zegger (Reg. No. 33821), Edmond R. Bannon (Reg. No. 32110), Bruce J. Barker (Reg. No. 33291), Adriane M. Antler (Reg. No. 32605), Thomas G. Rowan (Reg. No. 34419), James G. Markey (Reg. No. 31636), Thomas D. Kohler (Reg. No. 32797), Scott D. Stimpson (Reg. No. 33607), Gary S. Williams (Reg. No. 31066), William S. Galliani (Reg. No. 33885), Ann L. Gisolfi (Reg. No. 31956), Todd A. Wagner (Reg. No. 35399), Scott B. Familant (Reg. No. 35514), Kelly D. Talcott (Reg. No. 39582), Francis D. Cerrito (Reg. No. 38100), Anthony M. Insogna (Reg. No. 35203), Brian M. Rothery (Reg. No. 35340), Brian D. Siff (Reg. No. 35679), and Alan Tenenbaum (Reg. No. 34939), provided that if any one of said attorneys ceases being affiliated with the law firm of Pennie & Edmonds LLP as partner, employee or of counsel, such attorney's appointment as attorney and all powers derived therefrom shall terminate on the date such attorney ceases being so affiliated.

In addition, the undersigned assignee also appoints Charles E. Shemwell (Reg. No. 40,171) of Rambus Inc. to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

In accordance with 37 CFR 3.73, Rambus Inc. hereby certifies that the evidentiary documents with respect to its ownership have been reviewed, and that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of the attached copy of the assignment.

Direct all telephone calls to William S. Galliani at (650) 493-4935. Address all correspondence to:

PENNIE & EDMONDS LLP
3300 Hillview Avenue
Palo Alto, CA 94304

Date: Sept. 11, 2000

Assignee: RAMBUS INC.

Signature:

By:

Title:

Address:

Charles E. Shemwell

Patent Counsel

2465 Latham Street

Mountain View, CA 94040



RAMBUS

Rambus Inc.
2465 Latham Street
Mountain View, CA 94040
Phone 650-944-8000
Fax 650-944-8080
www.rambus.com



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January 20, 2000

Re: Authorization to Execute Documents for Securing Patent Rights
on Behalf of Rambus Inc.

To Whom It May Concern:

Charles E. Shemwell is hereby authorized to execute all documents on behalf of Rambus Inc., for prosecution of patent applications and in transacting business before the U.S. Patent and Trademark Office, including the U.S. Receiving Office under the Patent Cooperation Treaty, and before all foreign (non-U.S.) patent offices, for securing U.S. and foreign patent rights.

Rambus Inc.


Joel A. Karp
Vice President

ASSIGNMENT

WHEREAS I, Donald V. Perino of North Potomac, Maryland, have invented certain new and useful improvements in an *Apparatus and Method for Operating a Master-Slave System with a Clock Signal and a Separate Phase Signal*, for which invention I have executed an application for Letters Patent of the United States and which application may be identified in the United States Patent and Trademark Office as Serial No. 09/629,862, filed August 1, 2000; and

Whereas, **RAMBUS INC.**, a corporation of the State of Delaware, having its principal place of business at **2465 Latham Street, Mountain View, CA 94040** (hereinafter referred to as assignee) is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the Letters Patent to be obtained therefore;

Now, therefore, for and in consideration of One Dollar and other good and valuable considerations, to me in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I have sold assigned, and set over and by these presents do hereby sell, assign, and set over unto said assignee and said assignee's legal representatives, successors and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both foreign and domestic, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee agreeably with the terms of this assignment.

I hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of my said application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Upon said consideration, I convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of said United States application (or other application if any there be) in priority to other applications; and I do hereby covenant and agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional renewal, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or chose in action accruing as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being

understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee this 5th day of September, 2000.

Donald V. Perino
Donald V. Perino

County of Montgomery .)

) ss.

State of Maryland .)

On this 5th day of September, in the year 2000, before me, CAROLYN Tihila, Notary Public of the State of Maryland, personally appeared Donald V. Perino, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Carolyn Tihila

(Seal)

ASSIGNMENT

WHEREAS I, Donald V. Perino of North Potomac, Maryland, have invented certain new and useful improvements in an *Apparatus and Method for Operating a Master-Slave System with a Clock Signal and a Separate Phase Signal*, for which invention I have executed an application for Letters Patent of the United States and which application may be identified in the United States Patent and Trademark Office as Serial No. 09/629,862, filed August 1, 2000; and

Whereas, **RAMBUS INC.**, a corporation of the State of **Delaware**, having its principal place of business at **2465 Latham Street, Mountain View, CA 94040** (hereinafter referred to as assignee) is desirous of acquiring the entire right, title, and interest in and to said invention, said application and the Letters Patent to be obtained therefore;

Now, therefore, for and in consideration of One Dollar and other good and valuable considerations, to me in hand paid, the receipt and sufficiency whereof are hereby acknowledged, I have sold assigned, and set over and by these presents do hereby sell, assign, and set over unto said assignee and said assignee's legal representatives, successors and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both foreign and domestic, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee agreeably with the terms of this assignment.

I hereby authorize the above-mentioned assignee or its legal representative to insert in this instrument the filing date and serial number of my said application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Upon said consideration, I convey to said assignee the right to make application in its own behalf for protection of said invention in countries foreign to the United States and where expedient to claim under the International Convention or other international arrangement for any such application the date of said United States application (or other application if any there be) in priority to other applications; and I do hereby covenant and agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I will at any time upon request, without further or additional consideration, but at the expense of the said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional renewal, reissued or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or chose in action accruing as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being

understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, the said Inventor has executed and delivered this instrument to said Assignee this 5th day of September, 2000.

Donald V. Perino
Donald V. Perino

County of Montgomery .)

) ss.

State of Maryland .)

On this 5th day of September, in the year 2000, before me, CAROLYN Tihila, Notary Public of the State of Maryland, personally appeared Donald V. Perino, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature CAROLYN Tihila

(Seal)